

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A multi-service platform system, comprising:
a switch node coupled to receive a DS3 signal, wherein the DS3 signal is translated to a packet-based signal at the switch node;
a plurality of payload nodes; and
a packet switched backplane coupling the switch node and the plurality of payload nodes, wherein the data from the DS3 signal, as the packet-based signal, is selectively distributed to one or more of the plurality of payload nodes ~~via~~ by the packet switched backplane.

2. (Original) The multi-service platform system of claim 1, wherein the packet-based signal can be one of an InfiniBand, Serial RapidIO and Ethernet packet based signal.

3. (Currently Amended) The multi-service platform system of claim 430, wherein the packet switched backplane comprises a plurality of packet-based links, wherein the switch node receives a plurality of DS3 signals, and wherein data from two of the plurality of DS3 signals, as the packet-based signal, are distributed over one of the plurality of packet-based links from the switch node to one of the plurality of payload nodes.

4. (Original) The multi-service platform system of claim 1, wherein the packet switched backplane is an embedded packet switched backplane.

5. (Original) The multi-service platform system of claim 1, wherein the packet switched backplane is an overlay packet switched backplane.

6. (Original) The multi-service platform system of claim 1, wherein the DS3 signal is processed at one or more of the plurality of payload nodes.

7. (Original) The multi-service platform system of claim 1, wherein the packet switched backplane is a CompactPCI Serial Mesh backplane.

8. (Original) The multi-service platform system of claim 1, wherein the packet switched backplane is a VMEbus switched serial standard backplane.

9. (Original) The multi-service platform system of claim 1, wherein distribution of the DS3 signal to one or more of the plurality of payload nodes is dynamically remapped.

10. (Currently Amended) A method, comprising:
receiving a DS3 signal at a switch node;
translating the DS3 signal to a packet-based signal at the switch node; and

selectively distributing data from the DS3 signal, as the packet-based signal, to one or more of a plurality of payload nodes ~~via~~by a packet switched backplane.

11. (Original) The method of claim 10, wherein the packet-based signal can be one of an InfiniBand, Serial RapidIO and Ethernet packet based signal.

12. (Original) The method of claim 10, wherein the packet switched backplane comprises a plurality of packet-based links between the switch node and the plurality of payload nodes, wherein receiving a DS3 signal comprises receiving a plurality of DS3 signals at the switch node, and wherein distributing the DS3 signal comprises distributing data from two of the plurality of DS3 signals, as the packet-based signal, over one of the plurality of packet-based links from the switch node to one of the plurality of payload nodes.

13. (Original) The method of claim 10, wherein the packet switched backplane is an embedded packet switched backplane.

14. (Original) The method of claim 10, wherein the packet switched backplane is an overlay packet switched backplane.

15. (Original) The method of claim 10, further comprising processing the DS3 signal at one or more of the plurality of payload nodes.

16. (Original) The method of claim 10, wherein the packet switched backplane is a CompactPCI Serial Mesh backplane.

17. (Original) The method of claim 10, wherein the packet switched backplane is a VMEbus switched serial standard backplane.

18. (Original) The method of claim 10, further comprising dynamically remapping distribution of the DS3 signal to one or more of the plurality of payload nodes.

19. (Currently Amended) A switch node comprising a computer-readable medium containing computer instructions for instructing a processor to perform a method of receiving and processing a DS3 signal in a multi-service platform system, the instructions comprising:

receiving the DS3 signal at the switch node;

translating the DS3 signal to a packet-based signal at the switch node; and

selectively distributing data from the DS3 signal, as the packet-based signal, to one or more of a plurality of payload nodes ~~via~~ by a packet switched backplane.

20. (Original) The computer-readable medium of claim 19, wherein the packet-based signal can be one of an InfiniBand, Serial RapidIO and Ethernet packet based signal.

21. (Original) The computer-readable medium of claim 19, wherein the packet switched backplane comprises a plurality of packet-based links between the switch node and the plurality of payload nodes, wherein receiving a DS3 signal comprises receiving a plurality of DS3 signals at the switch node, and wherein distributing the DS3 signal comprises distributing data from two of the plurality of DS3 signals, as the packet-based signal, over one of the plurality of packet-based links from the switch node to one of the plurality of payload nodes.

22. (Original) The computer-readable medium of claim 19, wherein the packet switched backplane is an embedded packet switched backplane.

23. (Original) The computer-readable medium of claim 19, wherein the packet switched backplane is an overlay packet switched backplane.

24. (Original) The computer-readable medium of claim 19, further comprising processing the DS3 signal at one or more of the plurality of payload nodes.

25. (Original) The computer-readable medium of claim 19, wherein the packet switched backplane is a CompactPCI Serial Mesh backplane.

26. (Original) The computer-readable medium of claim 19, wherein the packet switched backplane is a VMEbus switched serial standard backplane.

27. (Original) The computer-readable medium of claim 19, further comprising dynamically remapping distribution of the DS3 signal to one or more of the plurality of payload nodes.

28. (New) The multi-service platform system of claim 1, further comprising:

a first packet based interface for switching packets and coupled with the switch node; and

a plurality of second packet based interfaces for switching packets and each coupled with one of the plurality of payload nodes,

wherein the packet switched backplane is coupled with the first packet based interface and the plurality of second packet based interfaces, and the packet switched backplane selectively distributes a packet-based signal received from the first packet based interface to at least one of the plurality of second packet based interfaces.

29 (New) The multi-service platform system of claim 28 comprising a plurality of first packet based interfaces;

30 (New) The multi-service platform system of claim 29, wherein the switch node is coupled with at least two of the plurality of first packet based interfaces;

31 (New) The multi-service platform system of claim 28, wherein each of the plurality of payload nodes is coupled with at least two of the plurality of second packet based interfaces.

32 (New) The multi-service platform system of claim 3, wherein each of the plurality of packet-based links establishes a dedicated connection between one of the plurality of first packet based interfaces and one of the plurality of second packet based interfaces.

33 (New) The multi-service platform system of claim 1, wherein each of the plurality of payload nodes further comprises a gasketing logic unit for translating a received packet-based signal to a second DS3 signal.

34 (New) The multi-service platform system of claim 33, wherein each of the plurality of payload nodes further comprises a processor for processing the second DS3 signal.

35 (New) The multi-service platform system of claim 1, further comprising a second switch node coupled to receive a third DS3 signal, wherein the third DS3 signal is translated to a second packet-based signal at the second switch node, the packet switched backplane is coupled with the second switch node, and the data from the third DS3 signal, as the second packet-based signal, is selectively

distributed to one or more of the plurality of payload nodes by the packet switched backplane.